STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/576,752 A_

Source: _JFWO_

Date Processed by STIC: _11/24/2006_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
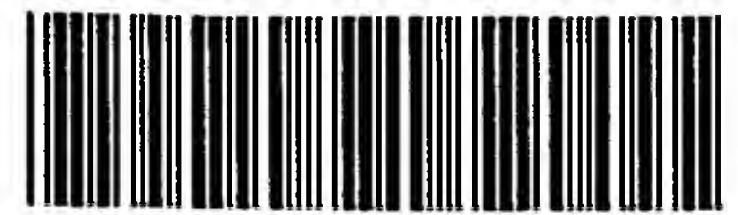**http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

IFWO

RAW SEQUENCE LISTING   DATE: 11/24/2006
PATENT APPLICATION: US/10/576,752A   TIME: 14:52:23

Input Set. : N:\efs\11_20_06\10576752a_efs\10576752_REVSeqList.txt
Output Set: N:\CRF4\11242006\J576752A.raw

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     3 <110> APPLICANT: Sirna Therapeutics, Inc.
     4       James, McSwiggen
     5       Ivan, Roberts
     7 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of GPRA and AAA1 Gene
     8       Expression Using Short Interfering Nucleic Acid (siNA)
    10 <130> FILE REFERENCE: 400/227 (MBHB04-423-A)
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/576,752A
C--> 13 <141> CURRENT FILING DATE: 2006-04-21
    15 <150> PRIOR APPLICATION NUMBER: US 60/570,086
    16 <151> PRIOR FILING DATE: 2004-05-11
    18 <150> PRIOR APPLICATION NUMBER: PCT/US04/16390
    19 <151> PRIOR FILING DATE: 2004-05-24
    21 <150> PRIOR APPLICATION NUMBER: US 10/826,966
    22 <151> PRIOR FILING DATE: 2004-04-16
    24 <150> PRIOR APPLICATION NUMBER: PCT/US04/13456
    25 <151> PRIOR FILING DATE: 2004-04-30
    27 <150> PRIOR APPLICATION NUMBER: US 10/780,447
    28 <151> PRIOR FILING DATE: 2004-02-13
    30 <150> PRIOR APPLICATION NUMBER: US 60/292,217
    31 <151> PRIOR FILING DATE: 2001-05-18
    33 <150> PRIOR APPLICATION NUMBER: US 60/362,016
    34 <151> PRIOR FILING DATE: 2002-03-06
    36 <150> PRIOR APPLICATION NUMBER: US 60/363,883
    37 <151> PRIOR FILING DATE: 2001-07-20
    39 <150> PRIOR APPLICATION NUMBER: US 60/311,865
    40 <151> PRIOR FILING DATE: 2001-08-13
    42 <150> PRIOR APPLICATION NUMBER: US 10/727,780
    43 <151> PRIOR FILING DATE: 2003-12-03
    46 <150> PRIOR APPLICATION NUMBER: US 60/543,480
    47 <151> PRIOR FILING DATE: 2004-02-10
    49 <150> PRIOR APPLICATION NUMBER: US 10/757,803
    50 <151> PRIOR FILING DATE: 2004-01-15
    52 <150> PRIOR APPLICATION NUMBER: US 10/720,448
    53 <151> PRIOR FILING DATE: 2003-11-24
    55 <150> PRIOR APPLICATION NUMBER: US 10/693,059
    56 <151> PRIOR FILING DATE: 2003-10-23
    58 <150> PRIOR APPLICATION NUMBER: US 10/444,853
    59 <151> PRIOR FILING DATE: 2003-05-23
    61 <150> PRIOR APPLICATION NUMBER: US 10/427,160
    62 <151> PRIOR FILING DATE: 2003-04-30
    65 <150> PRIOR APPLICATION NUMBER: PCT/US03/05346
    66 <151> PRIOR FILING DATE: 2003-02-20
    68 <150> PRIOR APPLICATION NUMBER: PCT/US03/05028
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CPR-10)

Does Not Comply
Corrected Diskette Needed

CPR-8)

RAW SEQUENCE LISTING   DATE: 11/24/2006
PATENT APPLICATION: US/10/576,752A   TIME: 14:52:23

Input Set : **N:\efs\11_20_06\10576752a_efs\10576752_REVSeqList.txt**
Output Set: **N:\CRF4\11242006\J576752A.raw**

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 71 <150> PRIOR APPLICATION NUMBER: US 60/358,580
 72 <151> PRIOR FILING DATE: 2002-02-20
 74 <150> PRIOR APPLICATION NUMBER: US 60/363,124
 75 <151> PRIOR FILING DATE: 2002-03-11
 77 <150> PRIOR APPLICATION NUMBER: US 60/386,782
 78 <151> PRIOR FILING DATE: 2002-06-06
 80 <150> PRIOR APPLICATION NUMBER: US 60/406,784
 81 <151> PRIOR FILING DATE: 2002-08-29
 83 <150> PRIOR APPLICATION NUMBER: US 60/408,378
 84 <151> PRIOR FILING DATE: 2002-09-05
 86 <150> PRIOR APPLICATION NUMBER: US 60/409,293
 87 <151> PRIOR FILING DATE: 2002-09-09
 89 <150> PRIOR APPLICATION NUMBER: US 60/440,129
 90 <151> PRIOR FILING DATE: 2003-01-15
 92 <150> PRIOR APPLICATION NUMBER: PCT/US02/15876
 93 <151> PRIOR FILING DATE: 2002-05-17
 95 <160> NUMBER OF SEQ ID NOS: 810
 97 <170> SOFTWARE: PatentIn version 3.3
 99 <210> SEQ ID NO: 1
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101 <212> TYPE: RNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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108 gcucagggag ggcucugug                                          19
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113 <212> TYPE: RNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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120 gccuccguuc agcagagcu                                          19
123 <210> SEQ ID NO: 3
124 <211> LENGTH: 19
125 <212> TYPE: RNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
131 <400> SEQUENCE: 3
132 ugcagcugcu gcccagcuc                                          19
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137 <212> TYPE: RNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/576,752A

DATE: 11/24/2006
TIME: 14:52:23

Input Set : **N:\efs\11_20_06\10576752a_efs\10576752_REVSeqList.txt**
Output Set: **N:\CRF4\11242006\J576752A.raw**

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150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
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156 cucccucacu cagcugcag                                                   19
159 <210> SEQ ID NO: 6
160 <211> LENGTH: 19
161 <212> TYPE: RNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
167 <400> SEQUENCE: 6
168 ggagcaagga cagugaggc                                                   19
171 <210> SEQ ID NO: 7
172 <211> LENGTH: 19
173 <212> TYPE: RNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
179 <400> SEQUENCE: 7
180 cucaaccc.cg ccugagcca                                                  19
183 <210> SEQ ID NO: 8
184 <211> LENGTH: 19
185 <212> TYPE: RNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
192 <400> SEQUENCE: 8
193 augccagcca acuucacag                                                   19
196 <210> SEQ ID NO: 9
197 <211> LENGTH: 19
198 <212> TYPE: RNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
204 <400> SEQUENCE: 9
205 gagggcagcu ucgauucca                                                   19
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209 <211> LENGTH: 19
210 <212> TYPE: RNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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sense region
    216 <400> SEQUENCE: 10

RAW SEQUENCE LISTING   DATE: 11/24/2006
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Input Set : N:\efs\11_20_06\10576752a_efs\10576752_REVSeqList.txt
Output Set: N:\CRF4\11242006\J576752A.raw

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    217 agugggaccg ggcagacgc                                          19
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    223 <213> ORGANISM: Artificial Sequence
    225 <220> FEATURE:
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    229 cuggauucuu ccccagugg                                          19
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    234 <212> TYPE: RNA
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sense region
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    241 gcuugcacug aaacaguga                                          19
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    249 <220> FEATURE:
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sense region
    252 <400> SEQUENCE: 13
    253 acuuuuacug aaguggugg                                          19
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    257 <211> LENGTH: 19
    258 <212> TYPE: RNA
    259 <213> ORGANISM: Artificial Sequence
    261 <220> FEATURE:
    262 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    264 <400> SEQUENCE: 14
    265 gaaggaaagg aaugggguu                                          19
    268 <210> SEQ ID NO: 15
    269 <211> LENGTH: 19
    270 <212> TYPE: RNA
    271 <213> ORGANISM: Artificial Sequence
    273 <220> FEATURE:
    274 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    276 <400> SEQUENCE: 15
    277 uccuucuacu acuccuuua                                          19
    280 <210> SEQ ID NO: 16
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    283 <213> ORGANISM: Artificial Sequence
    285 <220> FEATURE:
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sense region
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288 <400> SEQUENCE: 16
289 aagacugagc aauugauaa   19

RAW SEQUENCE LISTING   DATE: 11/24/2006
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Input Set : N:\efs\11_20_06\10576752a_efs\10576752_REVSeqList.txt
Output Set: N:\CRF4\11242006\J576752A.raw

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294 <212> TYPE: RNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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302 acucuguggg uccucuuug                                         19
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306 <211> LENGTH: 19
307 <212> TYPE: RNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
313 <400> SEQUENCE: 18
314 guuuuuacca uuguuggaa                                         19
317 <210> SEQ ID NO: 19
318 <211> LENGTH: 19
319 <212> TYPE: RNA
320 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
326 <400> SEQUENCE: 19
327 aacuccguug ugcuuuuuu                                         19
330 <210> SEQ ID NO: 20
331 <211> LENGTH: 19
332 <212> TYPE: RNA
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
338 <400> SEQUENCE: 20
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342 <210> SEQ ID NO: 21
343 <211> LENGTH: 19
344 <212> TYPE: RNA
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:
348 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
350 <400> SEQUENCE: 21
351 aagaagucaa gaaugaccu                                         19
354 <210> SEQ ID NO: 22
355 <211> LENGTH: 19
356 <212> TYPE: RNA
357 <213> ORGANISM: Artificial Sequence
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360 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
362 <400> SEQUENCE: 22
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363 uucuuuguga cucagcugg   19
366 <210> SEQ ID NO: 23

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<220> FEATURE:
<221> NAME/KEY: misc_feature
<222> LOCATION: (1)..(19)
<223> OTHER INFORMATION: ribonucleotide modified as described
<220> FEATURE:
<221> NAME/KEY: misc_feature
<222> LOCATION: (1)..(1)
<223> OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moeity, inverted
abasic,
      inverted nucleotide or other terminal cap
<220> FEATURE:
<221> NAME/KEY: misc_feature
<222> LOCATION: (21)..(21)
<223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moeity, inverted
abasic,
      inverted nucleotide or other terminal cap
<220> FEATURE:
<221> NAME/KEY: misc_feature
<222> LOCATION: (20)..(21)
<223> OTHER INFORMATION: n stands for any nucleotide
<400> SEQUENCE: 789
      nnnnnnnnnn nnnnnnnnnn n
```

? 'n' can represent single nucleotide only.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/24/2006
PATENT APPLICATION: US/10/576,752A   TIME: 14:52:24

Input Set : **N:\efs\11_20_06\10576752a_efs\10576752_REVSeqList.txt**
Output Set: **N:\CRF4\11242006\J576752A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:789; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:790; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:791; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:792; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:793; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:794; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:795; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:796; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:797; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:799; Line(s) 16512
Seq#:800; Line(s) 16585
Seq#:801; Line(s) 16662
Seq#:803; Line(s) 16769
Seq#:806; Line(s) 16978
Seq#:807; Line(s) 17001
Seq#:808; Line(s) 17013

VERIFICATION SUMMARY   DATE: 11/24/2006
PATENT APPLICATION: **US/10/576,752A**   TIME: 14:52:24

Input Set : **N:\efs\11_20_06\10576752a_efs\10576752_REVSeqList.txt**
Output Set: **N:\CRF4\11242006\J576752A.raw**

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L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:16196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:789 after pos.:0
L:16229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:790 after pos.:0
L:16257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:791 after pos.:0
L:16291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:792 after pos.:0
L:16326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:793 after pos.:0
L:16360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:794 after pos.:0
L:16395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:795 after pos.:0
L:16430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:796 after pos.:0
L:16464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:797 after pos.:0
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